

ColorBeam 700E AT - DMX Protocol-version 1.0

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
1	1	1	1	1	0 - 255	Pan Pan movement by 540°	proportional
2	2	2	2	-	0 - 255	Pan Fine Fine control of pan movement	proportional
3	3	3	3	2	0 - 255	Tilt Tilt movement by 280°	proportional
4	4	4	4	-	0 - 255	Tilt fine Fine control of tilt movement	proportional
5	5	5	5	3	0	Pan/Tilt speed , Pan/Tilt time Max. speed (tracking mode)	step
					1 - 255	P./T. speed-set Speed Mode in menu: Pan/Tilt Mode Speed from max. to min. (vector mode)	proportional
					1 - 255	P./T. time - set Time Mode in menu: Pan/Tilt Mode Time from 0.1 s to 25.5 s.	proportional
6	6	6	6	4	0 - 49	Power/Special functions Reserved <i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 s. („Shutter,Strobe” channel 30 (24..) must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden).</i>	
					50 - 59	Pan/Tilt speed mode	step
					60 - 69	Pan/Tilt time mode	step
					70 - 79	Blackout while pan/tilt moving	step
					80 - 89	Disabled blackout while pan/tilt moving	step
					90 - 99	Blackout while colour wheel moving	step
					100 - 109	Disabled blackout while colour wheel moving	step
					110 - 119	Blackout while gobo wheel moving	step
					120-129	Disabled blackout while gobo wheel moving <i>To activate following functions, stop in DMX value for at least 3 s.</i>	step
					130 - 139	Lamp On,reset(total reset except pan/tilt reset)	step
					140 - 149	Pan/Tilt reset	step
					150 - 159	Colour system reset	step
					160 - 169	Gobo wheels reset	step
					170 - 179	Dimmer/strobe reset	step
					180 - 189	Focus/frost reset	step
					190 - 199	Iris/prism reset	step
					200 - 209	Total reset	step
					210 - 229	Reserved	step
					230 - 239	Lamp Off	
					240 - 255	Reserved	step
7	7	-	-	-	0 - 9	Pan/Tilt macro selection Disabled pan/tilt macro	step
					10 - 31	Reserved	step
					32 - 63	Figure of circle (from small to large)	proportional
					64 - 95	Figure of horizontal eight (from small to large)	proportional
					96 - 127	Figure of vertical eight (from small to large)	proportional
					128 - 159	Figure of rectangle (from small to large)	proportional
					160 - 191	Figure of triangle (from small to large)	proportional
					192 - 223	Figure of star (from small to large)	proportional
					224 - 255	Figure of cross (from small to large)	proportional
8	8	-	-	-	0	Pan/Tilt macro speed <i>(Set pan/tilt speed (channel 5) at 0)</i> No macro generation	step
					1 - 127	Macro generation from fast to slow-forwards	proportional
					128 - 129	No macro generation	step
					130 - 255	Macro generation from slow to fast-backwards	proportional

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
9	9	7	7	5		Colour wheel	
						<u>Continual positioning</u>	
					0	Open/white	proportiona
					16	Deep red	proportiona
					32	Deep blue	proportiona
					48	Orange	proportional
					64	Green	proportional
					80	Light red	proportional
					96	Amber	proportional
					112	UV filter	proportional
					128-129	White	proportional
						<u>Positioning</u>	
					130-137	Deep red	step
					138-145	Deep blue	step
					146-153	Orange	step
					154-163	Green	step
					164-171	Light red	step
					172-181	Amber	step
					182-189	UV filter	step
					190 - 215	Forwards rainbow effect from fast to slow	proportional
					216 - 217	No rotation	step
					218 - 243	Backwards rainbow effect from slow to fast	proportional
					244 - 249	Random colour selection by audio control (Set microphone sensitivity in menu „Personality”)	step
					250 - 255	Auto random colour selection from fast to slow	proportional
10	-	8	-	-	0 - 255	Colour wheel - fine positioning Fine positioning	proportional
11	10	9	8	6	0 - 255	Cyan Cyan (0-white, 255-full cyan)	proportional
12	11	10	9	7	0 - 255	Magenta Magenta (0-white, 255-full magenta)	proportional
13	12	11	10	8	0 - 255	Yellow Yellow (0-white, 255-full yellow)	proportional
14	13	12	11	9	0 - 255	CTO filter (0-6000K, 255-3200K)	proportional
15	14	13	12	10		CMY colour macros	
					0 - 7	No function	step
					8 - 15	Macro 1	step
					16 -23	Macro 2	step
					24-31	Macro 3	step
					32-39	Macro 4	step
					40-47	Macro 5	step
					48-55	Macro 6	step
					56-63	Macro 7	step
					64-71	Macro 8	step
					72-79	Macro 9	step
					80-87	Macro 10	step
					88-95	Macro 11	step
					96-103	Macro 12	step
					104-111	Macro 13	step
					112-119	Macro 14	step
					120-127	Macro 15	step
					128-135	Macro 16	step
					136-143	Macro 17	step
					144-151	Macro 18	step
					152-159	Macro 19	step

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
19	17	17	15	13		Rotating gobo wheel <u>Index</u> - set indexing on channel 20 (18,16,14)	
					0-3	Open/hole	step
					4-7	Gobo 1	step
					8-11	Gobo 2	step
					12-15	Gobo 3	step
					16-19	Gobo 4	step
					20-23	Gobo 5	step
					24-27	Gobo 6	step
					28-31	Gobo 7	step
						<u>Rotation</u> - set rotation on channel 20 (18,16,14)	
					32-35	Gobo 1	step
					36-39	Gobo 2	step
					40-43	Gobo 3	step
					44-47	Gobo 4	step
					48-51	Gobo 5	step
					52-55	Gobo 6	step
					56-59	Gobo 7	step
						<u>Shaking gobos from slow to fast</u>	
						<u>Index</u> - set indexing on channel 20 (18,16,14)	
					60-69	Gobo 1	proportional
					70-79	Gobo 2	proportional
					80-89	Gobo 3	proportional
					90-99	Gobo 4	proportional
					100-109	Gobo 5	proportional
					110-119	Gobo 6	proportional
					120-129	Gobo 7	proportional
						<u>Positioning - Shaking gobos from slow to fast</u>	
						<u>Rotation</u> - set rotation on channel 20 (18,16,14)	
					130 - 139	Gobo 1	proportional
					140 - 149	Gobo 2	proportional
					150 - 159	Gobo 3	proportional
					160 - 169	Gobo 4	proportional
					170 - 179	Gobo 5	proportional
					180 - 189	Gobo 6	proportional
					190 - 199	Gobo 7	proportional
					200 - 201	Open/hole	step
					202 - 221	Forwards gobo wheel rotation from fast to slow	proportional
					222 - 223	No rotation	step
					224 - 243	Backwards gobo wheel rotation from slow to fast	proportional
					244 - 249	Random gobo selection by audio control (Set microphone sensitivity in menu „Personality“)	step
					250 - 255	Auto random gobo selection from fast to slow	proportional
20	18	18	16	14		Rot. gobo indexing and rotation	
					0 - 255	<u>Gobo indexing</u> - set position on channel 19 (17...) Gobo indexing	proportional
					0	<u>Gobo rotation</u> - set position on channel 19 (17...) No rotation	step
					1 - 127	Forwards gobo rotation from fast to slow	proportional
					128 - 129	No rotation	step
					130 - 255	Backwards gobo rotation from slow to fast	proportional
21	-	19	-	-	0-255	Gobo fine indexing Fine indexing	proportional
22	19	20	17	15	0 - 19	Prism Open position (hole)	step
					20 - 127	3-facet rotating prism	step
					128 - 255	Prism/gobo macros	
					128 - 135	Macro 1	step
					136 - 143	Macro 2	step

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
22	19	20	17	15	144 - 151 Macro 3 152 - 159 Macro 4 160 - 167 Macro 5 168 - 175 Macro 6 176 - 183 Macro 7 184 - 191 Macro 8 192 - 199 Macro 9 200 - 207 Macro 10 208 - 215 Macro 11 216 - 223 Macro 12 224 - 231 Macro 13 232 - 239 Macro 14 240 - 247 Macro 15 248 - 255 Macro 16		step step step step step step step step step step step step step step step
23	20	21	18	16	0 No rotation 1 - 127 Forwards rotation from fast to slow proportional 128 - 129 No rotation 130 - 255 Backwards rotation from slow to fast		step proportional step proportional
24	21	22	19	17	0 Open 1 - 179 Frost from 0% to 100% 180 - 189 100% frost 190 - 211 Pulse closing from slow to fast 212 - 233 Pulse opening from fast to slow 234 - 255 Ramping from fast to slow		step proportional step proportional proportional proportional
25	-	23	-	-	0-255 Frost fine Smooth frosting		proportional
26	22	24	20	18	0 Open 1 - 179 From max.diameter to min.diameter 180 - 191 Closed <i>Pulse effects with Iris blackout:</i> 192 - 219 Pulse opening from slow to fast 220 - 247 Pulse closing from fast to slow 248 - 249 Random pulse opening (fast) 250 - 251 Random pulse opening (slow) 252 - 253 Random pulse closing (fast) 254 - 255 Random pulse closing (slow)		step proportional step proportional proportional step step step step
27	-	25	-	-	0 - 255 Iris fine Iris fine		proportional
28	23	26	21	19	0 - 255 Focus Continuous adjustment from far to near		proportional
29	-	27	-	-	0- 255 Focus fine Focus fine		proportional
30	24	28	22	20	0 - 31 Shutter closed, Lamp power reduced to 350 W (after 10 s*) 32 - 63 Shutter open, Full lamp power 64 - 95 Strobe-effect from slow to fast (max.12 flashes/s) 96 - 127 Shutter open, Lamp power reduced to 350 W 128 - 143 Opening pulse in sequences from slow to fast 144 - 159 Closing pulse in sequences from fast to slow 160 - 191 Shutter open, Electronic strobing „ZAP“ from slow to fast (from 7 to 33 flashes/sec) 192 - 223 Random strobe-effect from slow to fast 224 - 255 Shutter open, Full lamp power		step step proportional step proportional proportional proportional proportional step

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
31	25	29	23	21	0 - 255	Dimmer intensity Dimmer intensity from 0% to 100% (In range of 0-8 DMX, lamp power reduced to 350 W)	proportional
32	-	30	-	-	0 - 255	Fine dimmer intensity Dimmer intensity fine	proportional

* 10s=default time delay, this value can be changed in the "Lamp Low Power Delay" menu.